

Permit Reference Number: DP3430LX

Operator: ZF Automotive UK Ltd.

Installation: ZF Automotive UK Ltd., Pontypool

Form Number: S1

Reporting of Emissions to Sewer for the period from: 01/01/24 to 31/12/24

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	Zinc	5.0mg/l	0.1	WAS-049	All readings	UKAS	6.3 – 10.1 %
S1	Nickel	2.0mg/l	0.1	WAS-049	All readings	UKAS	7.1 – 8.9 %
S1	Chromium	4.0mg/l	0.2	WAS-049	18/01/24 @ 11:37	UKAS	-
S1	Copper	2.0mg/l	0.1	WAS-049	All readings	UKAS	8 – 10.4 %
S1	pH	6 – 11 ^[6]	9.4 Max 6.6 Min	WAS-049	01/11/24 @ 09:31 01/07/24 @ 09:34	UKAS	-

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases, the principal technique is stated, e.g., colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) – The basis of any other uncertainty figure needs to be stated. Where no figure is available Natural Resources Wales will need to agree an appropriate uncertainty value.

[6] The emission limit values for {pH} are expressed as minimum and maximum individual values.

Signed: 
(Authorised to sign as representative of ZF Automotive UK Ltd.)

Date: 28/01/25

Date of form: 05/12/2013

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Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2024

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1a) Hazardous Wastes - Solid	Landfill	44.18	0
1b) Hazardous Wastes - Liquids	Chemical Treatment	1099.28	
2) Non-Hazardous Wastes			
TOTAL WASTE	-	1143.76	

Trends in Waste Disposal and Recovery		
Year	Named Waste	Total Waste
2018	1172.50	1172.50
2019	1359.60	1359.60
2020	1401.28	1401.28
2021	1694.54	1694.54
2022	1971.20	1971.20
2023	1275.84	1275.84

Operator's comments:

Waste increases due to:

- Pressing of the Hydroxide Sludge during 2024 resulted in an increase in disposal of filter cake but a decrease of 18% in terms of sludge disposal. Net reduction in total waste disposal = 127 tonnes of waste.
- Reduced volumes during 2024 resulted in a 50% reduction in the quantity of plating solution waste produced. Net reduction in total waste disposal = 87 tonnes of waste.

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Form Number: WU1

Reporting of Water Usage for the year: 2024

Water Source	Usage (m ³)	Specific Usage (m ³ /1000 parts)
Main's water	14830	3.87
TOTAL WATER USAGE	14830	

Trends in Water Usage		
Year	Parameter	Total Water usage
2020	Town's Mains	23617
2021	Town's Mains	18773
2022	Town's Mains	17975
2023	Town's Mains	13770

Operator's comments:

	Units	2019	2020	2021	2022	2023	2024
Zinc Plated	Pieces	817591	643606	350589	205135	0	0
Zinc Nickel	Pieces	4205077	3460852	3363011	3071409	3545627	2169217
Caliper Anodised	Pieces	643658	691180	1324387	1674195	2200159	1666961
Drum Anodised	Pieces	215240	228480	168293	0	0	0
Total	Pieces	5881566	5024118	5206280	4950739	5745786	3836178
Effluent Water	M ³ /1000 parts	4.95	4.70	3.61	3.63	2.40	3.87

Zinc Plant not run during 2023, therefore zero water used and zero effluent from the process. The zinc plant was decommissioned and removed in 2024. Lower than expected sales volumes have impacted both process plants.



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Form Number: E1

Reporting of Energy Usage for the year: 2024

Energy Source	Energy Usage (MWh)	Primary Energy (MWh)	CO ₂ Produced (tonnes)
Electricity *	2086 MWh	5006	831
Natural Gas	0 m ³	0	0
Gas Oil	0 tonnes		
	+		
TOTAL	-	5006	831

Trends in Energy Usage		
Year	Parameter Primary Energy usage	CO ₂ produced
2019	6933 MWh	1152 Tonnes
2020	6499 MWh	1079 Tonnes
2021	5945 MWh	987 Tonnes
2022	5485 MWh	910 Tonnes
2023	5876 MWh	975 Tonnes

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Gas Conversion m³ = ((m³*29.31)/35)/1000000) MWh. The conversion factors used to calculate the CO₂ produced were taken from the sector guidance H2 section 3.1 and were 190 for natural Gas and 166 for electricity. ((MWh * Co₂ factor)/1000)

	Units	2019	2020	2021	2022	2023	2024
Zinc Plated	Pieces	817591	643606	350589	205135	0	0
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Caliper Anodised	Pieces	643658	691180	1324387	1674195	2200159	1666961
Drum Anodised	Pieces	215240	228480	168293	0	0	0
Total	Pieces	5881566	5024118	5206280	4950739	5745786	3836178
Electricity (Processes)	Kwh/1000 parts	487.97	537.41	474.64	461.63	426.10	543.78
Gas (Processes)	M ³ /1000 parts	9.12	4.59	3.41	1.24	0.00	0.00

Zinc plant not run during 2023. The zinc plant driers were gas driers whereas the zinc nickel and anodise plant use electric driers. Zinc Nickel converted from HPHW process heating to individual electric tank heaters.



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